

SAMSUNG

# Digital Amplifier Speaker System

## HT-AS1 HT-AS1T

THIS APPLIANCE IS MANUFACTURED BY:

SAMSUNG

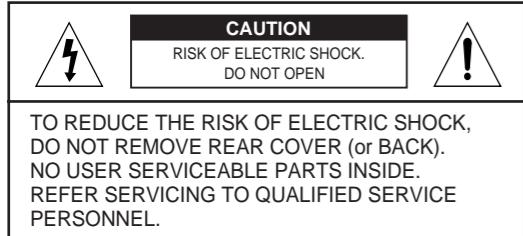
AH68-01942B

### Instruction Manual

---



# Safety Warnings



**CLASS 1 LASER PRODUCT**  
**KLASSE 1 LASER PRODUKT**  
**LUOKAN 1 LASER LAITE**  
**KLASS 1 LASER APPARAT**  
**PRODUCTO LASER CLASE 1**

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

#### CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

#### Wiring the Main Power Supply Plug (UK Only)

#### IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

#### IMPORTANT

The wires in the main lead are coloured in accordance with the following code:- BLUE = NEUTRAL BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:-

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL  $\text{---}$ , OR COLOURED GREEN OR GREEN AND YELLOW.

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.

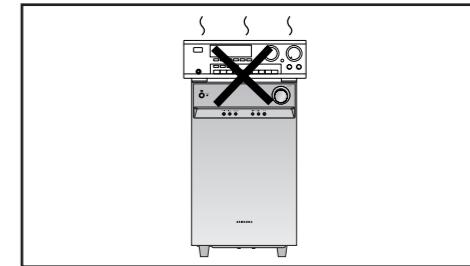
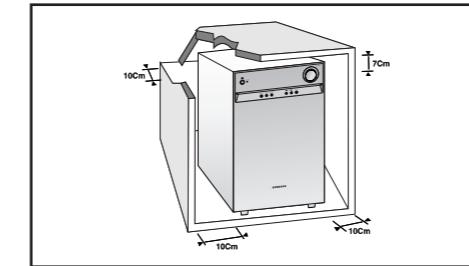
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

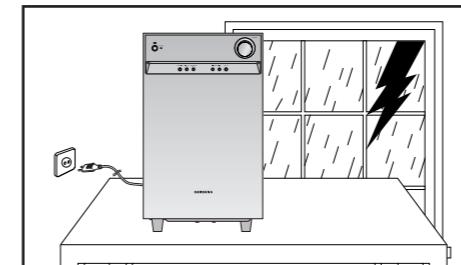
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



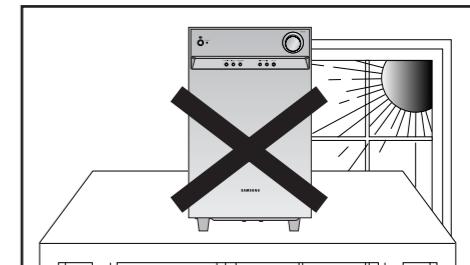
# Precautions



Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5-10cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the amplifier. In order to disconnect the player completely from the power supply, remove the mains plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.  
Voltage peaks due to lightning could damage the unit.

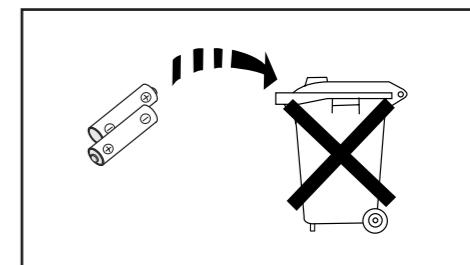


Do not expose the unit to direct sunlight or other heat sources.  
This could lead to overheating and malfunction of the unit.



Protect the player from moisture(i.e. vases), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.  
Condensation may occur if your player or disc have been stored in cold temperatures.  
If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.  
Do not dispose of batteries in the general household trash.

# Features

## ● Built-in Subwoofer

Built-in subwoofer in the amplifier enables you to enjoy rich bass sound without additional subwoofer speaker.

## ● Digital Amplifier Speaker

This product is a pure digital Amplifier Speaker that performs digital signal processing to minimize signal distortion and loss.

## ● Dolby Pro Logic II

Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

## ● DTS (Digital Theater Systems)

DTS play backs 5.1 channel sound with less compression than Dolby Digital for richer sound.

## ● SFE(Sound Field Effect) Using 24bit Audio DSP

Provides more realistic surround sound with normal stereo audio sources.

# Contents

## ● PREPARATION

Safety Warnings .....	2
Precautions.....	3
Features .....	4
Description .....	6

## ● CONNECTIONS

Connecting the Speakers .....	10
Connecting External Components .....	12

## ● OPERATION

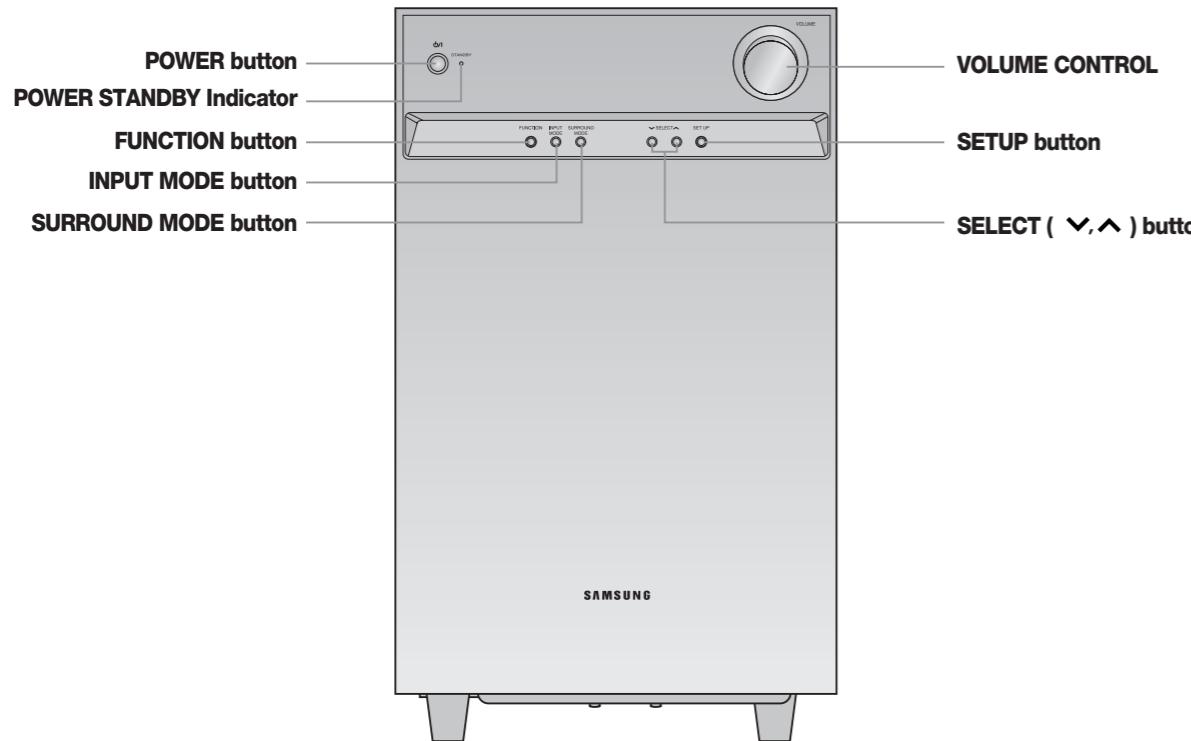
Before Using the Digital Amplifier Speaker .....	14
Selecting Digital/Analog Input .....	16
Setting the Speaker Mode .....	18
Setting the Speaker Listening Distance .....	20
Setting Digital Input .....	22
Setting DRC (Dynamic Range Compression) .....	24
Test Tone .....	26
Setting Speaker Level .....	30
Dolby Pro Logic II Mode.....	32
Dolby Pro Logic II Effect .....	34
Setting Tone Control .....	36
SFE Mode.....	38
Stereo Mode .....	40

## ● MISCELLANEOUS

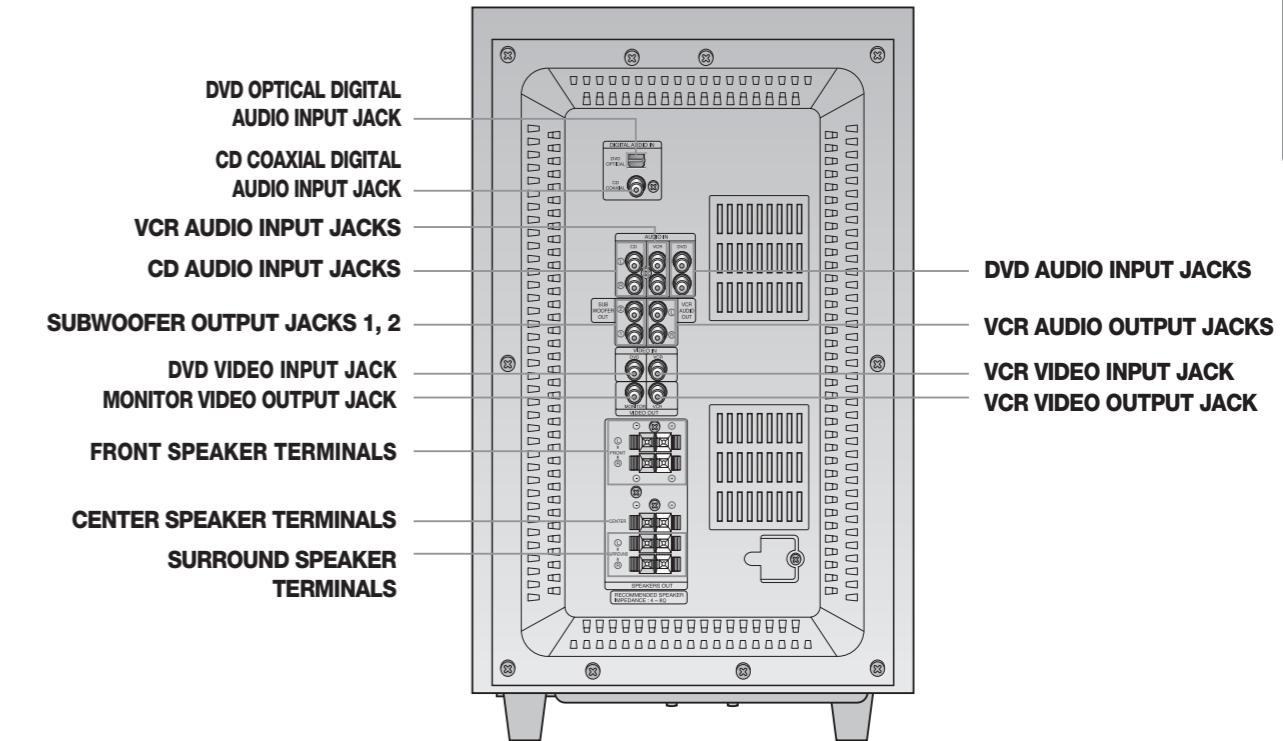
Convenient Functions .....	42
Operating TV with Remote Control.....	44
Operating your DVD (VCR) with Remote Control.....	46
Before Calling for Service .....	48
Specifications .....	50

# Description

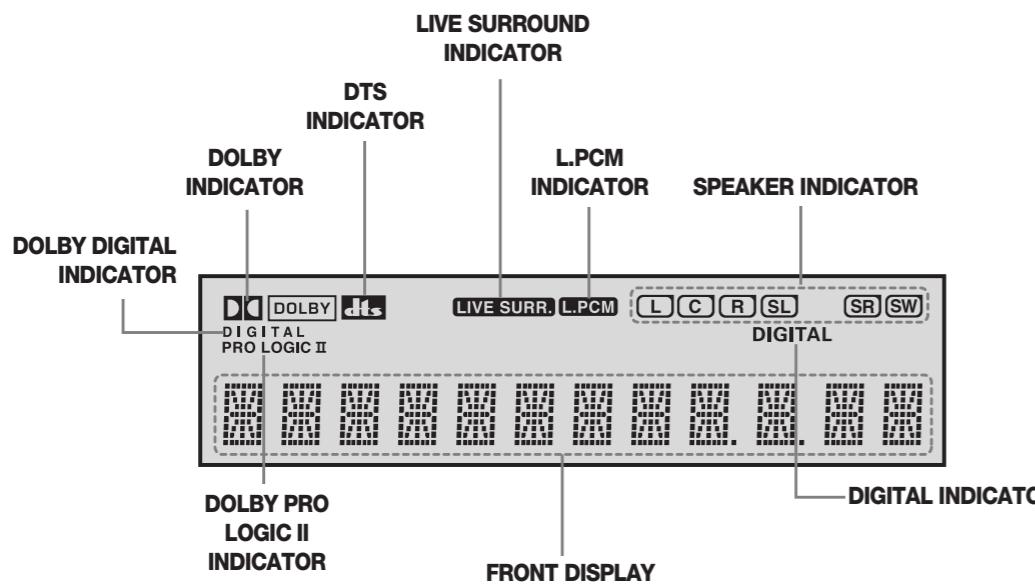
## [ Front Panel ]



## [ Rear Panel ]



## [ Display ]

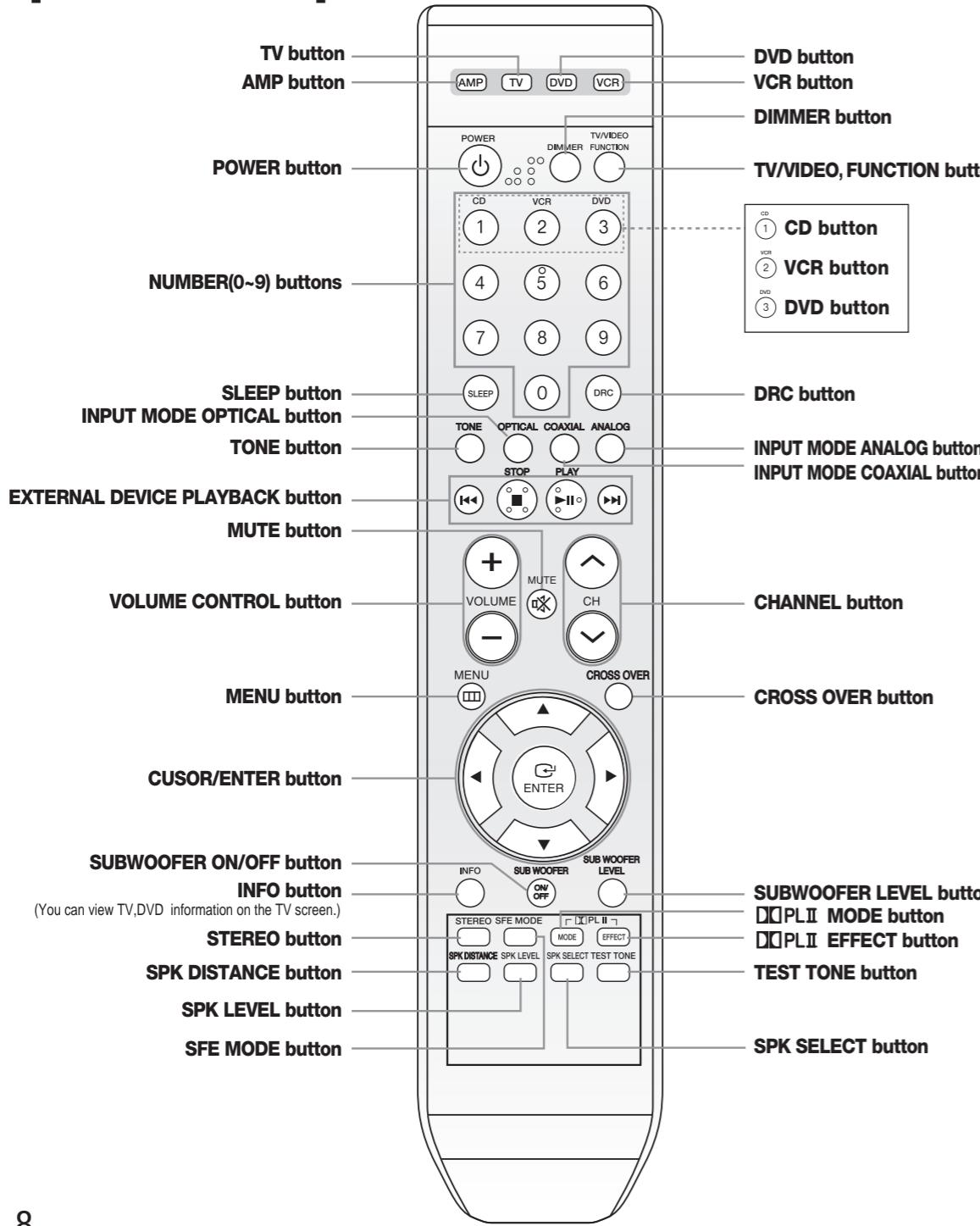


## ►► Accessories ◀◀

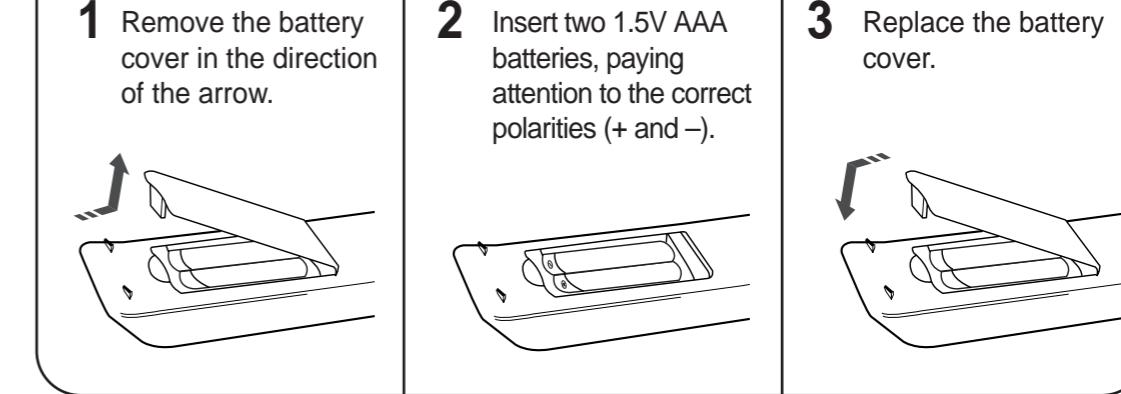


# Description (Con't)

## [ Remote Control ]



## Insert Remote Batteries



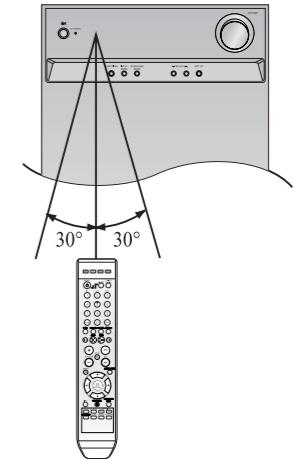
### Note

Follow these precautions to avoid leaking or cracking batteries:

- Place batteries in the remote control so they match the polarity:(+) to (+)and (−)to (−).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

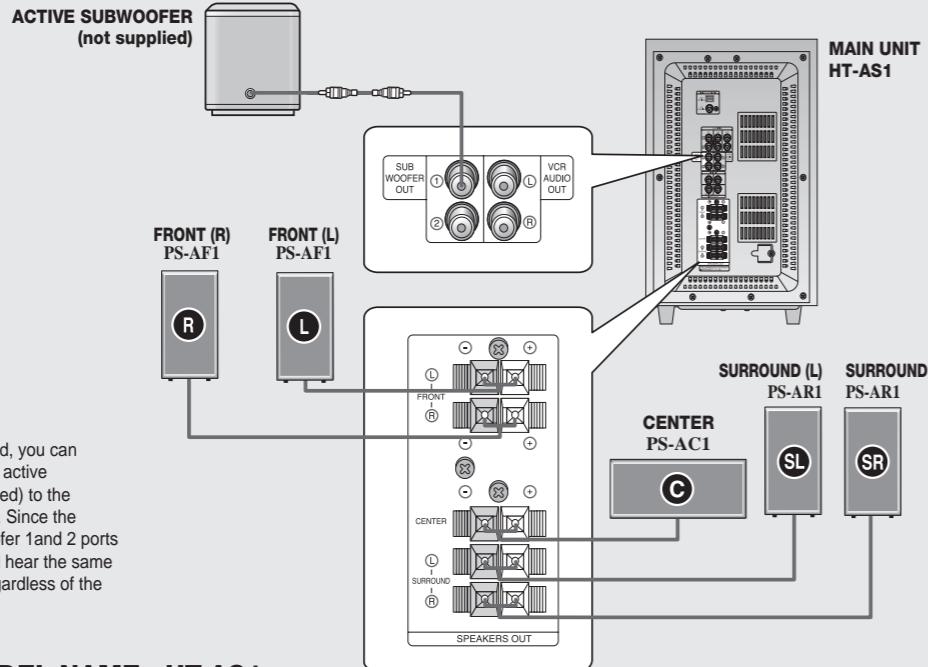
## Range of Operation of the Remote Control

The remote control can be used up to approximately 7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



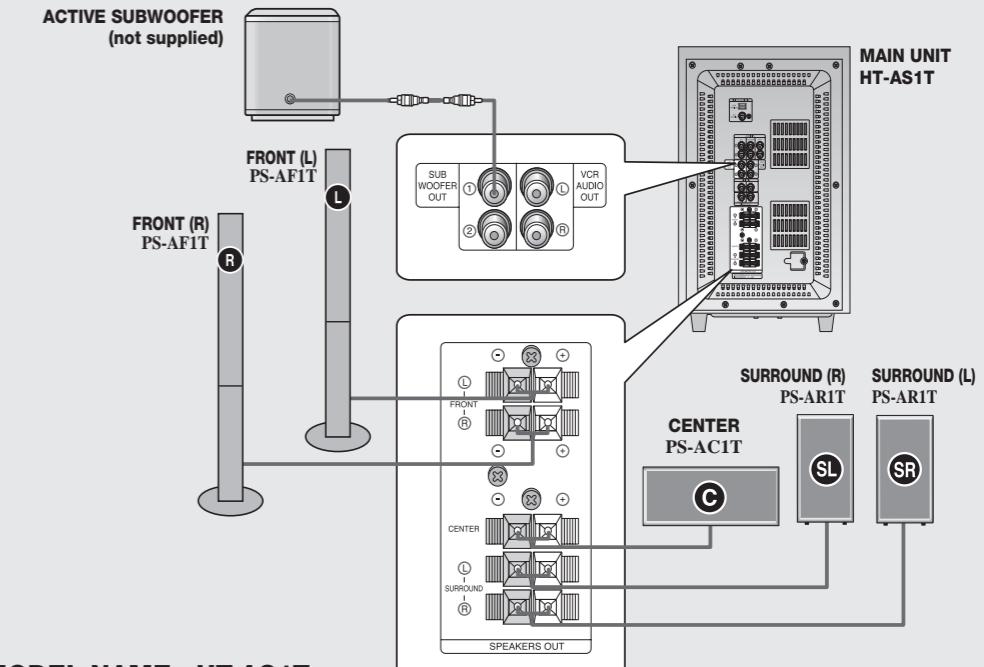
# Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



## SYSTEM MODEL NAME : HT-AS1

FRONT SPEAKER	PS-AF1
CENTER SPEAKER	PS-AC1
SURROUND SPEAKER	PS-AR1



## SYSTEM MODEL NAME : HT-AS1T

FRONT SPEAKER	PS-AF1T
CENTER SPEAKER	PS-AC1T
SURROUND SPEAKER	PS-AR1T

### Position of Digital Amplifier/ subwoofer Speaker

- The position of the Digital Amplifier/ subwoofer Speaker is not so critical. Place it anywhere you like.

### Front Speakers **L R**

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

### Center Speaker **C**

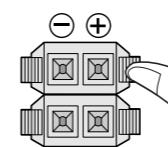
- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

### Surround Speakers **SL SR**

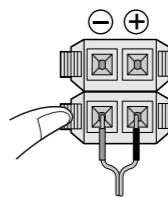
- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.
- Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

### ▶ Connecting Speaker Wire

1 Press the tab of the speaker connector.



2 Insert the black wire into the black(-) terminal and the gray wire into the red(+) terminal.

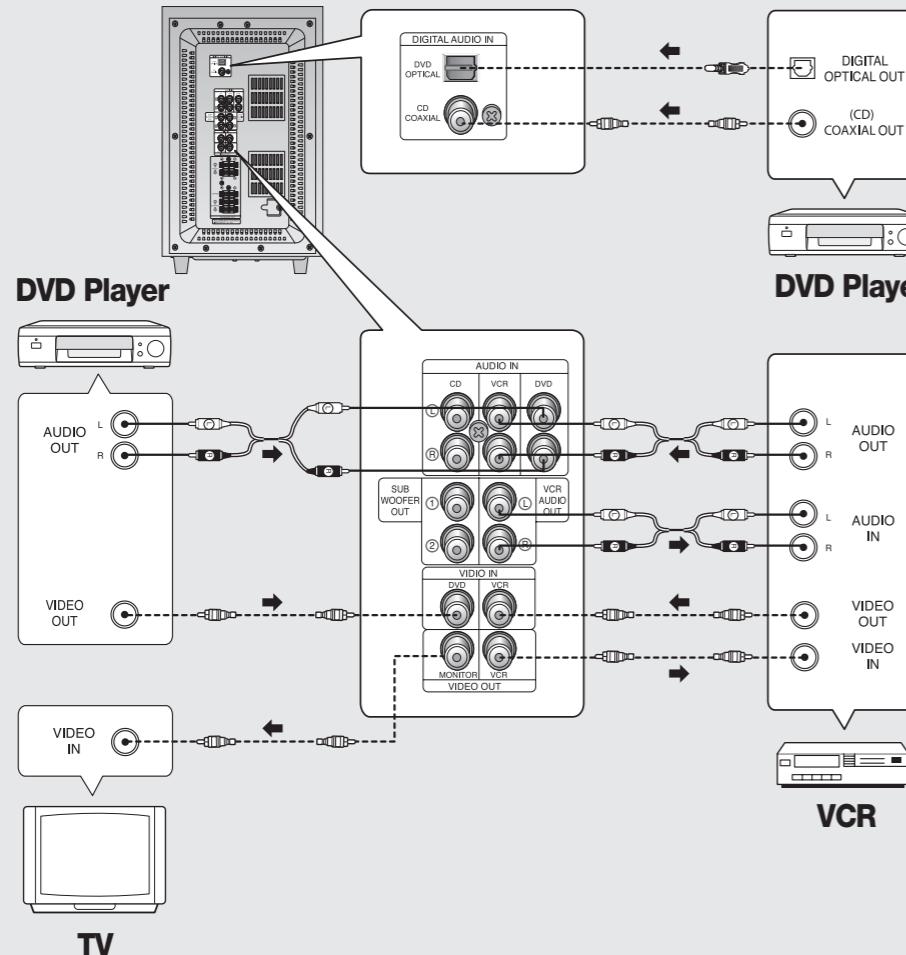


- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.

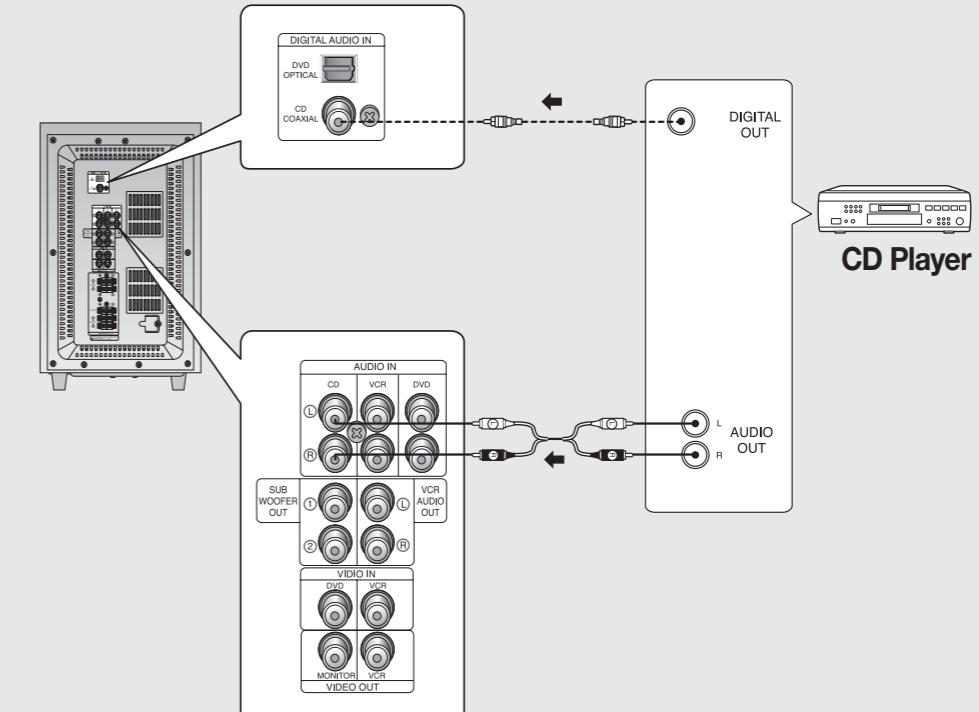


# Connecting External Components

## Connecting Video Component



## Connecting Audio Component

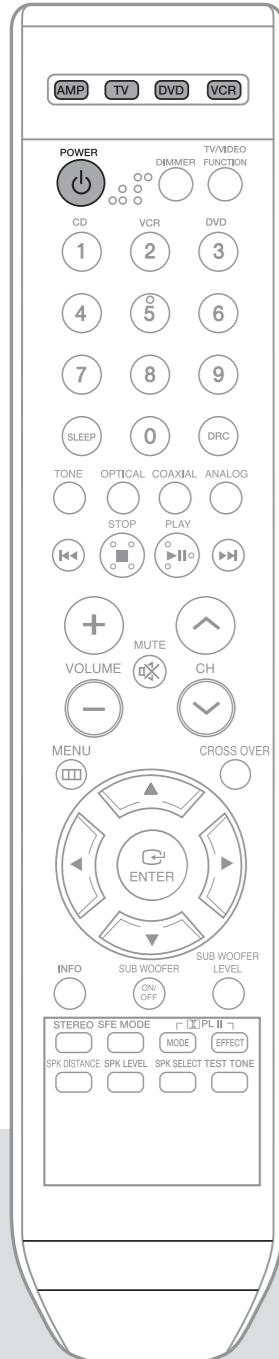


### Note

- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- In a DVD/CD player, you can select one digital audio input from OPTICAL and COAXIAL.



# Before Using the Digital Amplifier Speaker



## Turning On/Off

### REMOTE CONTROL

- 1 Connect the power plug to the outlet.
- 2 Press **AMP** button to set the remote to Amplifier mode.
- 3 Press the **POWER** button of the remote control.
  - This unit will be turned on or set to Standby mode.

### MAIN UNIT

- 1 Connect the power plug to the outlet.
- 2 Press the **POWER** button of the main unit.
  - This unit will be turned on or set to Standby mode.

## Functions of Dedicated Remote Control

You can operate your AMP, TV, DVD, VCR with one remote control.  
See pages 44-47 for more details.



## To Select the Function

### REMOTE CONTROL

#### Method 1

Press the **FUNCTION** button.

- Each time you press the this button, **DVD** → **VCR** → **CD** will be selected in turn.

#### Method 2

Press **CD**, **VCR** or **DVD** button.

- You can directly select **CD**, **VCR** or **DVD**.

### MAIN UNIT

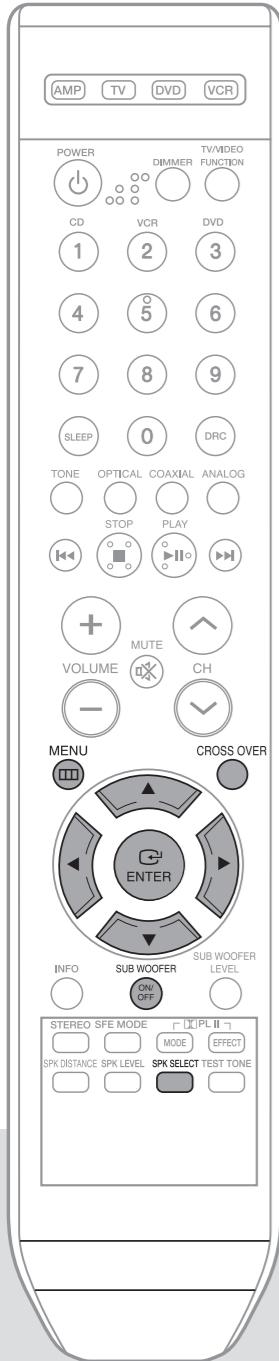
Press **FUNCTION** button.

- Each time you press the this button, **DVD** → **VCR** → **CD** will be selected in turn.



# Setting the Speaker Mode

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.



## REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "SPK SETUP", and then press **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.  
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR will be selected in turn.
- 4 Press **▲▼** button to set the mode (Large, Small etc.) for the selected speaker.
- 5 Repeat steps 3-4 to set the mode for each speaker.

### To exit setup mode

- Wait for about 5 seconds or press **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

## Using the SPK SELECT button

- 1 Press **SPK SELECT** button to select the speaker you want.  
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR → SPK MODE OFF will be selected in turn.
- 2 Press **▲▼** button to set the mode (Large, Small etc.) for the selected speaker.
- 3 Repeat steps 1-2 to set the mode for each speaker.

### To turn the SUBWOOFER on or off.

Press **SUBWOOFER ON/OFF** button on the remote.

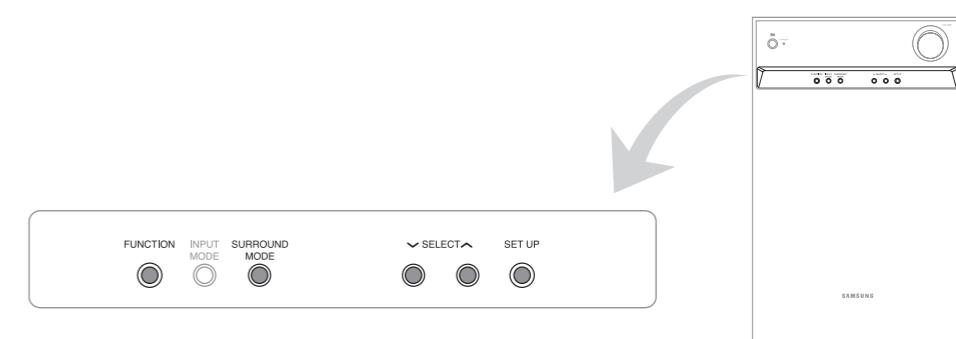
- Each time you press this button, SWSPK : YES, SWSPK : NO will be selected in turn.



- If FRONT is set to LARGE, you can select YES or NO for SWSPK.
- If FRONT is set to SMALL, SWSPK is automatically set to YES. NO cannot be selected.

### To set the cross over.

Press **CROSS OVER** button, and then press **▲▼** button to set the cross over frequency.



## MAIN UNIT

- 1 Press **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "SPK SETUP".
- 3 Press **SURROUND MODE** button to select the speaker you want.  
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR will be selected in turn.
- 4 Press **SELECT (▼, ▲)** button to set the mode for the selected speaker.
- 5 Repeat steps 3-4 to adjust each speaker.

### To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

## Setting the Speaker

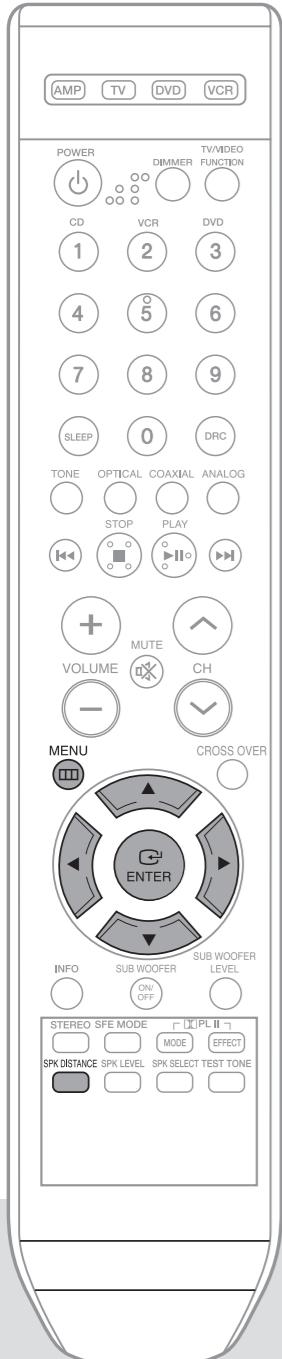
SPEAKER	Possible Settings	Default Setting
F.SPK(Front)	LARGE,SMALL	SMALL
C.SPK(Centre)	LARGE,SMALL,NONE	SMALL
S.SPK(Surround)	LARGE,SMALL,NONE	SMALL
SWSPK(Subwoofer)	YES,NO	YES
CROVR (Crossover Frequency)	60,80,100,120, 150,180,200(Hz)	150Hz

- **LARGE** : Select when using large speakers. You can listen to full range sound.
- **SMALL** : Select this when using small speakers.
- **NONE** : Select when you use no speaker.
- **YES (subwoofer)** : Select when using the subwoofer speaker.
- **NO (subwoofer)** : Select when not using the subwoofer speaker.
- **CROVR** : Select the crossover frequency for the best bass response in your room.



# Setting the Speaker Listening Distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the centre and surround speakers.



## REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "DIST SETUP", and then press **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.  
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the speaker distance.  
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.

### To exit setup mode

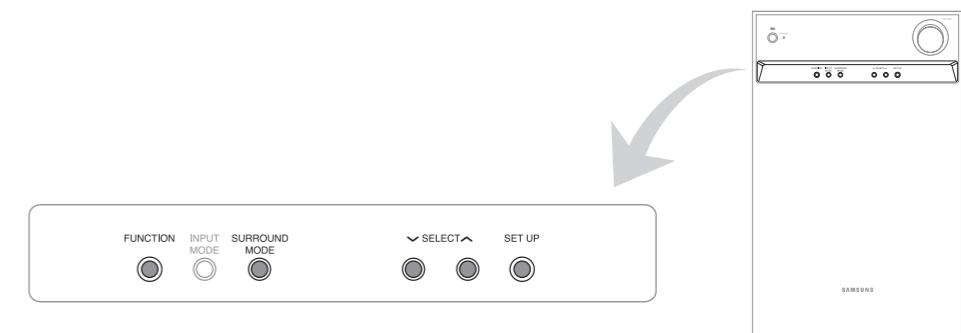
- Wait for about 5 seconds or press **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

### Using the SPK DISTANCE button

- 1 Press the **SPK DISTANCE** button to select the speaker you want.  
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → DISTANCE OFF will be selected in turn.
- 2 Press **▲▼** button to set the speaker distance.  
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.
- 3 Repeat steps 1-2 to set the mode for each speaker.



- If the listening position is beyond the range of speaker distance setup when you place the speaker, set the speaker distance to the maximum.



## MAIN UNIT

- 1 Press **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "DIST SETUP".
- 3 Press **SURROUND MODE** button to select the speaker you want.  
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT(▼, ▲)** button to set the speaker distance.  
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.

### To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

### Setting Speaker Distance

Set the distance from the speaker to listening position in intervals of 0.3m.

- **F.L (front left)** : 0.3m ~ 9m
- **CEN (centre)** : 0.3m ~ 9m
- **F.R (front right)** : 0.3m ~ 9m
- **S.R (surround right)** : 0.3m ~ 9m
- **S.L (surround left)** : 0.3m ~ 9m
- **SW (subwoofer)** : 0.3m ~ 9m

# Setting Digital Input

You can set the digital input for a DVD/CD player to either OPTICAL or COAXIAL.

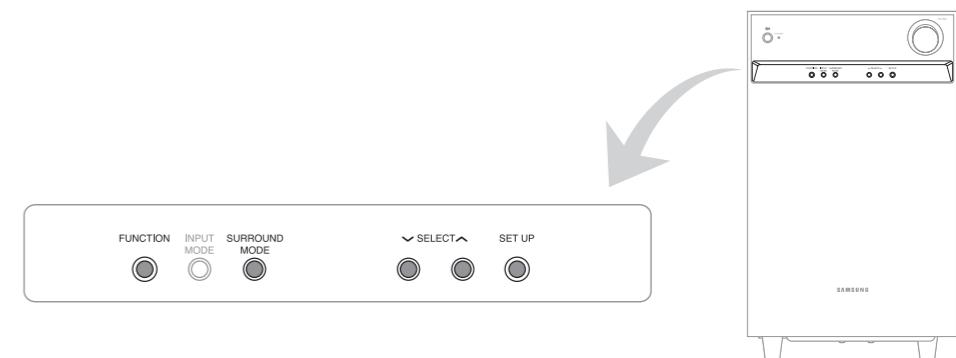


## REMOTE CONTROL

- 1 Press  **MENU** button, and then press  **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press  **▲▼** button to select the "DIGITAL IN", and then press  **ENTER** button.
- 3 Press  **▲▼** button to select the the CD or DVD function.  
• Each time you press this button, CD ↔ DVD will be selected in turn.
- 4 Press  **▲▼** button to set the digital input.  
• Each time you press this button, COAXIAL ↔ OPTICAL will be selected in turn.

### To exit setup mode

- Wait for about 5 seconds or press  **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.



## MAIN UNIT

- 1 Press  **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press  **FUNCTION** button to select the "DIGITAL IN".
- 3 Press  **SURROUND MODE** button to select the CD or DVD function.  
• Each time you press this button, CD ↔ DVD will be selected in turn.
- 4 Press  **SELECT( ▼, ▲ )** button to set the digital input.  
• Each time you press this button, COAXIAL ↔ OPTICAL will be selected in turn.

### To exit setup mode

- Wait for about 5 seconds or press  **SETUP** button.  
"SETUP OFF" appears on the display and the unit Setup Mode is exited.



- You can select only one digital input for each function.  
Example) If you have selected COAXIAL for the CD function, you cannot select COAXIAL for the DVD function.

Function	Digital input (Default setting)
DVD	OPTICAL
CD	COAXIAL

# Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



## REMOTE CONTROL

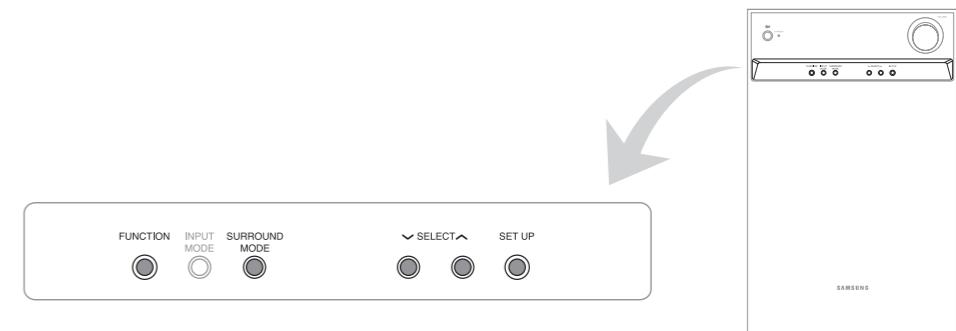
- 1 Press **MENU** button, and then press **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "DRC SETUP", and then press **ENTER** button.  
• "DRC:STD" appears on the display.
- 3 Press **▲▼** button to set the DRC.  
• Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

### To exit setup mode

- Wait for about 5 seconds or press **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

### Using the DRC button

Press **DRC** button.  
• Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.



## MAIN UNIT

- 1 Press **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "DRC SETUP".
- 3 Press **SURROUND MODE** button.  
• "DRC : STD" appears on the display .
- 4 Press **SELECT(▼, ▲)** button to set DRC.  
• Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

### To exit setup mode

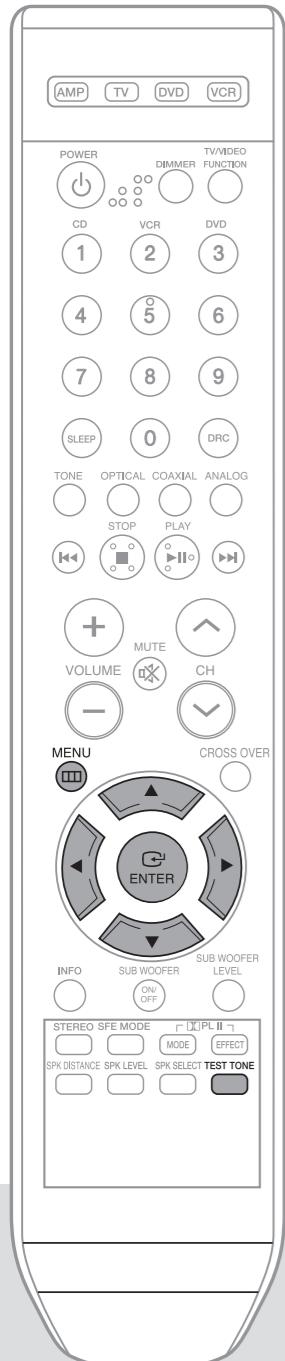
- Wait for about 5 seconds or press **SETUP** button.  
"SETUP OFF" appears on the display and the unit Setup Mode is exited.

### Setting DRC

- **STD** : Sets DRC effect to standard.
- **MAX** : Sets DRC effect to maximum.
- **MIN** : Sets DRC effect to minimum.

# Test Tone

Use test tone to check the speaker connection status or level.



## To automatically output test tone



## REMOTE CONTROL

- 1 Press  **MENU** button, and then press  **ENTER** button.
  - “SETUP MODE” appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the “TEST-T AUTO”, and then press  **ENTER** button.
  - Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W .
  - During test signal output, press **▲▼** button to adjust the speaker output level from -10 to +10 dB by 1 step.

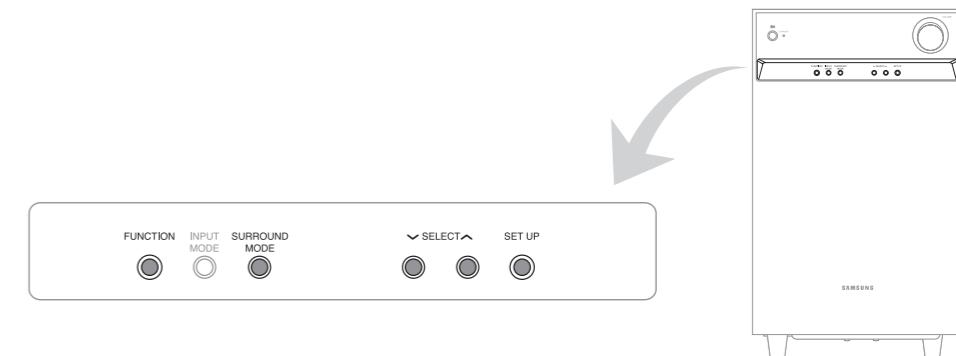
## || *To stop test tone*

- Press **MENU** button once time.  
“SETUP OFF” appears on the display and test tone stops

## Using the Test Tone button

Press **TEST TONE** button.

- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
- During test tone output, press **▲▼** button to adjust the speaker output level from -10 to +10 dB by 1 step.

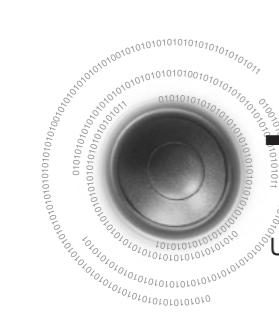


## MAIN UNIT

- 1 Press **SETUP** button.
  - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "TEST-T AUTO".
- 3 Press **SURROUND MODE** button.
  - Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W .
  - During test signal output, press **SELECT (▼, ▲)** button to adjust the speaker output level from -10 to +10 dB by 1 step.

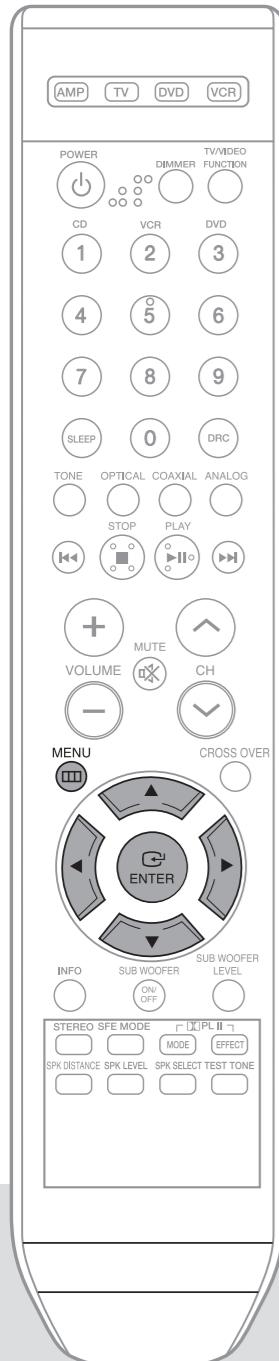
## ■ *To stop test tone*

- Press **SETUP** button once time.  
“**SETUP OFF**” appears on the display and test tone stops.



## Test Tone (Con't)

Use test tone to check the speaker connection status or level.



## To Manually Output Test Tone

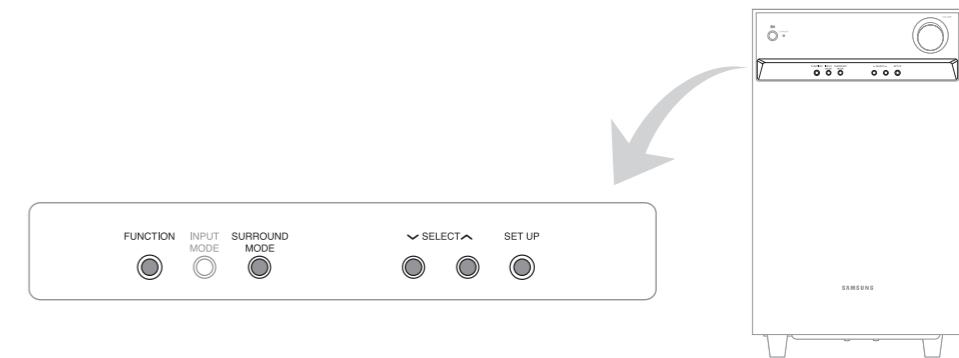


## REMOTE CONTROL

- 1 Press  **MENU** button, and then press  **ENTER** button
  - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "TEST-T MANU", and then press  **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.
  - Each time you press **◀▶** button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the test tone as you want.
  - You can adjust the speaker output level from -10 to +10dB by 1 step.
  - The sound gets quieter at -10dB and louder at +10dB.

## ■ *To stop test tone*

- Press  **MENU** button once time.  
“SETUP OFF” appears on the display and test tone stops



## MAIN UNIT

- 1** Press **SETUP** button.
  - “SETUP MODE” appears on the display and the unit goes into Setup Mode.
- 2** Press **FUNCTION** button to select the “TEST-T MANU”.
- 3** Press **SURROUND MODE** button.
  - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4** Press **SELECT(▼, ▲)** button to set the test tone as you want.
  - You can adjust the speaker output level from -10 to +10dB by 1 step.
  - The sound gets quieter at -10dB and louder at +10dB.

### ■ *To stop test tone*

- Press **SETUP** button once time.  
“SETUP OFF” appears on the display and test signal stops.

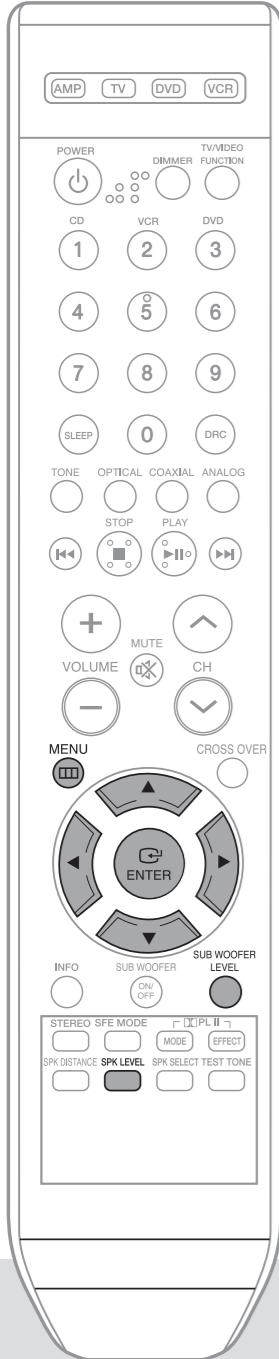
## Test Tone Output

- **F.L (front left)** : -10 ~ +10dB
- **CEN (centre)** : -10 ~ +10dB
- **F.R (front right)** : -10 ~ +10dB
- **S.R (surround right)** : -10 ~ +10dB
- **S.L (surround left)** : -10 ~ +10dB
- **S.W (subwoofer)** : -10 ~ +10dB



# Setting Speaker Level

You can set the balance and level of speakers.



## REMOTE CONTROL

- 1 Press  **MENU** button, and then press  **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "LEVEL SETUP", and then press  **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.  
• Each time you press **◀▶** button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the speaker level you want.  
• You can adjust it from -10 to +10dB by 1 step.  
• The sound gets smaller at -10dB and louder at +10dB.

### To exit setup mode

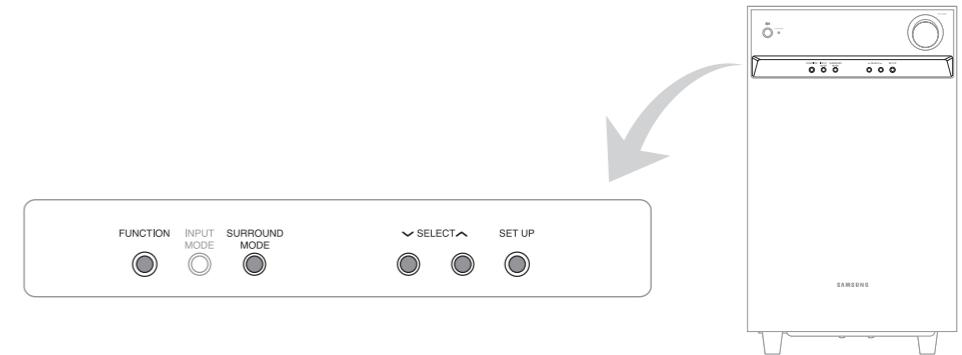
- Wait for about 5 seconds or press  **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

## Using the SPK LEVEL button

- 1 Press  **SPK LEVEL** button to select the speaker you want.  
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → SPK LVL OFF will be selected in turn.
- 2 Press **▲▼** button to set the speaker level you want.  
• You can adjust it from -10 to +10dB by 1 step.  
• The sound gets quieter at -10dB and louder at +10dB.

### To set the SUBWOOFER LEVEL.

Press  **SUBWOOFER LEVEL** button, and then press **▲▼** button to set the subwoofer level.



## MAIN UNIT

- 1 Press  **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press  **FUNCTION** button to select the "LEVEL SETUP".
- 3 Press  **SURROUND MODE** button.  
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press  **SELECT(▼, ▲)** button to set the speaker level you want.  
• You can adjust it from -10 to +10dB by 1 step.  
• The sound gets smaller at -10dB and louder at +10dB.

### To exit setup mode

- Wait for about 5 seconds or press  **SETUP** button.  
"SETUP OFF" appears on the display and exits Setup Menu.

## Setting Speaker Level

- **F.L (front left)** : -10 ~ +10dB
- **CEN (centre)** : -10 ~ +10dB
- **F.R (front right)** : -10 ~ +10dB
- **S.R (surround right)** : -10 ~ +10dB
- **S.L (surround left)** : -10 ~ +10dB
- **S.W (subwoofer)** : -10 ~ +10dB



# Dolby Pro Logic II Mode

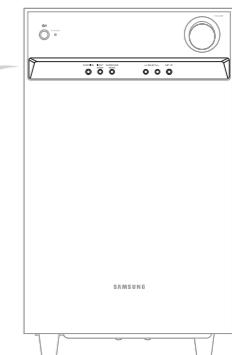
This mode provides 5.1 channel sound from 2 channel sources



## REMOTE CONTROL

Press **DPLII MODE** button.

- Each time you press this button, CINEMA → MATRIX → GAME → PRO LOGIC → MUSIC will be selected in turn.



## MAIN UNIT

**1** Press **SURROUND MODE** button to select "DPLII" mode.

- Each time you press this button, DPLII → SFE → STEREO will be selected in turn.

**2** Press **SELECT(▼, ▲)** button.

- Each time you press **SELECT (▲)** button, CINEMA → MATRIX → GAME → PRO LOGIC → MUSIC will be selected in turn.
- Each time you press **SELECT (▼)** button, MUSIC → PRO LOGIC → GAME → MATRIX → CINEMA will be selected in turn.

### To exit setup mode

- Wait for about 5 seconds.

### To exit setup mode

- Wait for about 5 seconds.

### Dolby Pro Logic II mode

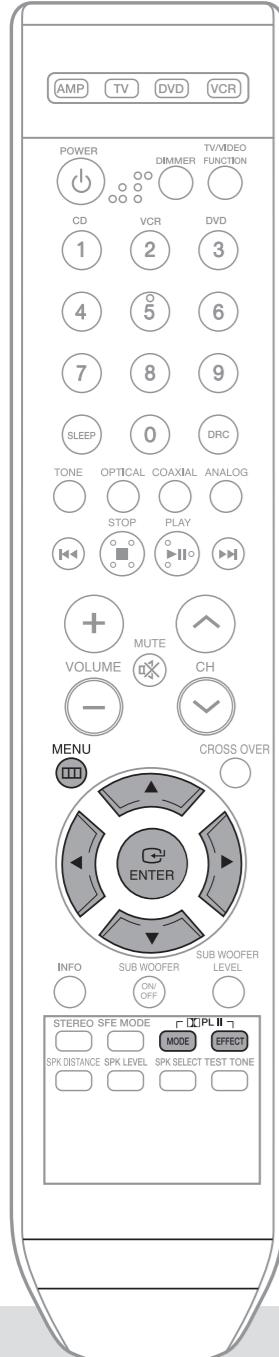
- **MUSIC** : Provides 5.1 channel surround sound to digital, analogue or existing stereo sources such as CD, TAPE, TV and stereo VCR.
- **CINEMA** : Adds realism to the movie soundtrack.
- **MATRIX** : You will hear 5.1 channel surround sound.
- **GAME** : Enhances the excitement of the game's sound.
- **PRO LOGIC** : You will experience a surround effect with just the front left and right speakers.



- You cannot use Dolby Pro Logic II mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from surround back speaker if PCM audio signal is mono.

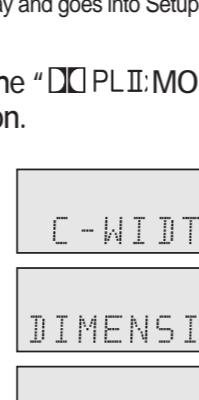
# Setting Dolby Pro Logic II Effect

This function works only in Dolby **PRO LOGIC II MUSIC** Mode.

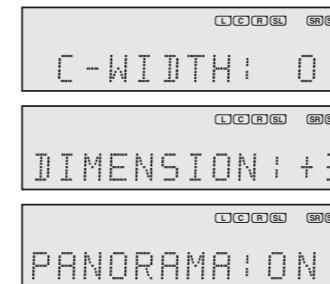


## REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button
  - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "DOLBY MODE", and then press **ENTER** button.
- 3 Press **◀▶** button.
  - Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 4 Press **▲▼** button to set the Dolby Pro Logic II effect you want.



The image shows three separate screenshots of a television screen. Each screenshot displays a menu option with a small icon in the top right corner. The first screenshot shows 'C-WIDTH' with icons for 'L', 'C', 'R', and 'SL'. The second screenshot shows 'DIMENSION' with icons for 'L', 'C', 'R', and 'SL'. The third screenshot shows 'PANORAMA' with icons for 'L', 'C', 'R', and 'SL'.

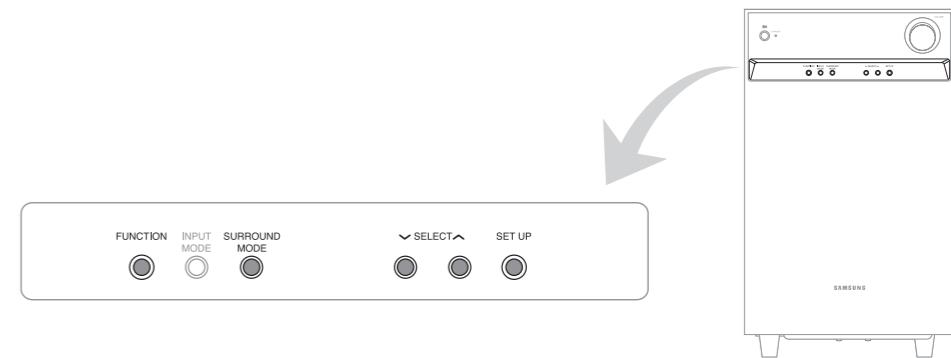


■ *To exit setup mode*

- Wait for about 5 seconds or press **MENU** button.  
“SETUP OFF” appears on the display and Setup Mode is exited.

## Using the EFFECT button

- 1 Press  **MODE** button to select 'MUSIC' Mode.
- 2 Press  **EFFECT** button.
  - Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 3 Press  button to select Dolby Pro Logic II effect you want.
  - C-WIDTH : You can set from 0 to 7.
  - DIMENSION : You can set from -7 to +7.
  - PANORAMA : You can set it ON or OFF.



## MAIN UNIT

- 1 Press **SETUP** button.
  - “SETUP MODE” appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the “DPLII MODE”.
- 3 Press **SURROUND MODE** button.
  - Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 4 Press **SELECT(▼, ▲)** button to set the Dolby Pro Logic II effect you want.

### **■ *To exit setup mode***

- Wait for about 5 seconds or press **SETUP** button.  
“**SETUP OFF**” appears on the display and Setup Mode is exited.

Dolby Pro Logic II effect

- **C-WIDTH** : This sets the width of the centre image. The higher the setting, the less sound comes from the centre speaker.
- **DIMENSION** : Incrementally adjusts the sound field (DSP)from the front or surround.
- **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

# Setting Tone Control

This function allows setting up the tone quality of the front speaker.



## REMOTE CONTROL

- 1 Press  **MENU** button, and then press  **ENTER** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "TONE CONTROL", and then press  **ENTER** button.
- 3 Press **◀▶** button.  
• Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.  
• If it is set to TONE: OFF, the Tone Control function will be disabled.
- 4 Press **▲▼** button to set the tone control you want.  
• You can adjust it from -6 to +6dB by 1 step.  
• The sound gets smaller at -6dB and louder at +6dB.

### To exit setup mode

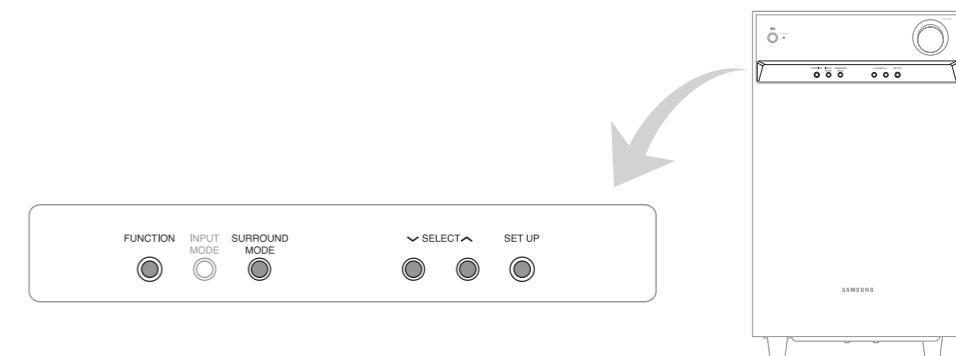
- Wait for about 5 seconds or press  **MENU** button.  
"SETUP OFF" appears on the display and Setup Mode is exited.

### Using the TONE button

- 1 Press  **TONE** button.  
• Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.
- 2 Press **▲▼** button to set the tone control you want.  
• You can adjust it from -6 to +6dB by 1 step.  
• The sound gets quieter at -6dB and louder at +6dB.



- Tone Control function is available only in the Stereo mode.



## MAIN UNIT

- 1 Press  **SETUP** button.  
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press  **FUNCTION** button to select the "TONE CONTROL".
- 3 Press  **SURROUND MODE** button.  
• Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.
- 4 Press  **SELECT(▼, ▲)** button to set the tone control you want.  
• You can adjust it from -6 to +6dB by 1 step.  
• The sound gets smaller at -6dB and louder at +6dB.

### To exit setup mode

- Wait for about 5 seconds or press  **SETUP** button.  
"SETUP OFF" appears on the display and exits Setup Menu.



# SFE Mode

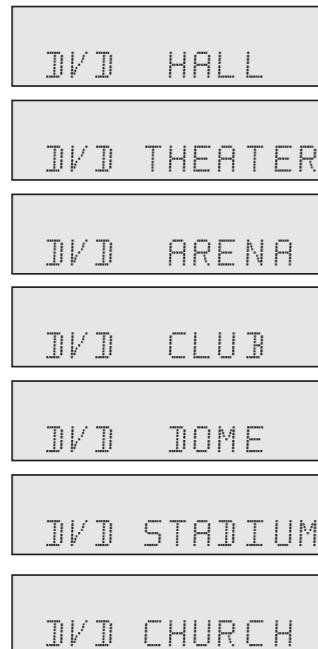
The SFE (Sound Field Effect) function uses 7 different DSP sound field effects to digitally simulate actual music environments such as concert halls or cinemas.



## REMOTE CONTROL

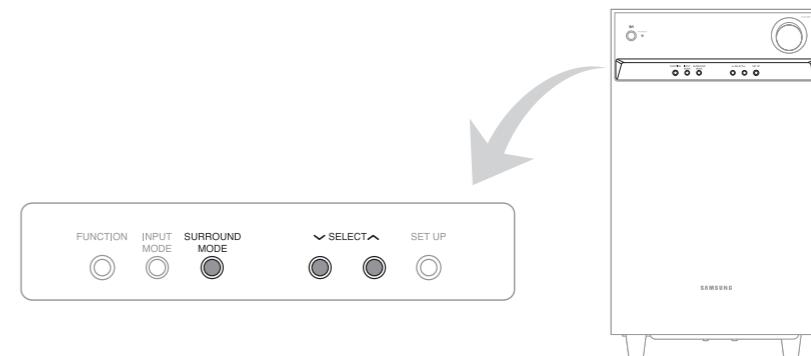
Press **SFE MODE** button.

- Each time you press this button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn.



**To exit setup mode**

- Wait for about 5 seconds.



## MAIN UNIT

**1** Press **SURROUND MODE** button to select 'SFE' Mode.

- Each time you press this button, DPLII → SFE → STEREO will be selected in turn.

**2** Press **SELECT( ▲, ▼ )** button.

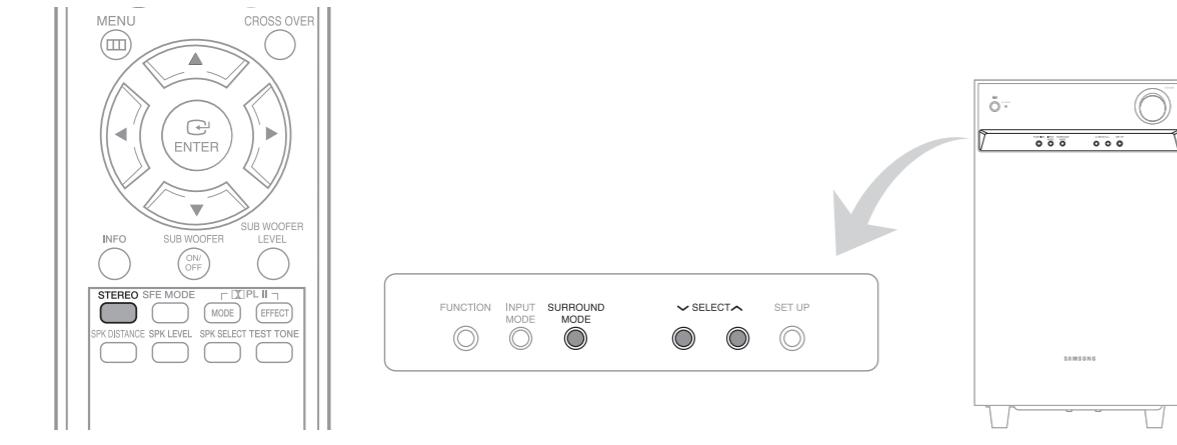
- Each time you press Select ( ▲ ) button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn
- Each time you press Select ( ▼ ) button, CHURCH → STADIUM → DOME → CLUB → ARENA → THEATER → HALL will be selected in turn.

**To exit setup mode**

- Wait for about 5 seconds.

# Stereo Mode

You can select this mode when listening to sound through the front left and right speakers and subwoofer.



## REMOTE CONTROL

Press **STEREO** button.

- "STEREO" appears in the display and Stereo Mode is selected.



## To exit setup mode

- Wait for about 5 seconds.

## MAIN UNIT

Press **SURROUND MODE** button to select 'STEREO'.

- Each time you press this button, DPLII → SFE → STEREO will be selected in turn.

## To exit setup mode

- Wait for about 5 seconds.

## For Surround Mode and Input Signal

o = active, - = inactive

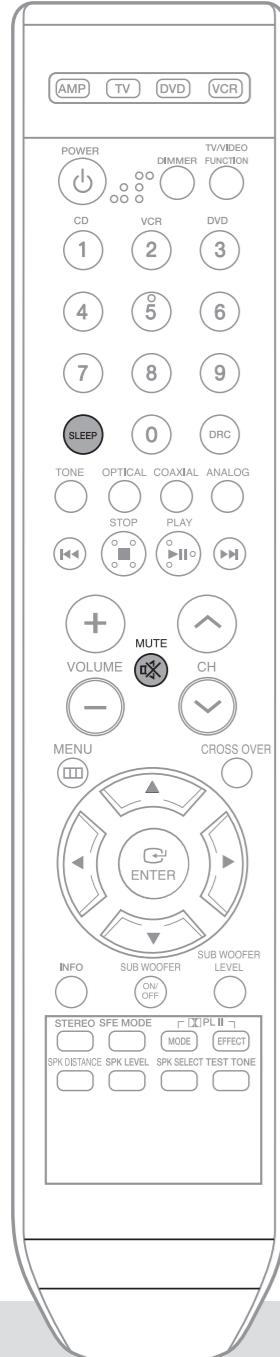
Surround Mode	Input Signal	Decoding	Output Channel				Display Information	
			L/R	C	SL SR	Sub Woofer	Display Signal Format	Channel Status
DOLBY (MUSIC, CINEMA, MATRIX, GAME, PROLOGIC)	Dolby D Sur. EX	Dolby Digital 5.1	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Dolby Digital 5.1	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	Pro Logic II	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	Pro Logic II	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	LPCM (Audio)	Pro Logic II	o	o	o	o	LPCM	L, C, R, SL, SR, SW
	Analog	Pro Logic II	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
DTS	DTS-ES	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS 96/24	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS (5.1)	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	LPCM (Audio)	Neo:6	o	o	o	-	LPCM	L, R
SFE	Dolby D (2ch)	DD + SFE	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	DD + SFE	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	LPCM (Audio)	SFE	o	o	o	o	LPCM	L, C, R, SL, SR, SW
	Analog	SFE	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
STEREO	Dolby D (2ch)	DD	o	-	-	-	DIGITAL	L, R, SW
	Dolby D (2ch Surr)	DD	o	-	-	-	DIGITAL	L, R, SW
	LPCM (Audio)	Stereo	o	-	-	-	LPCM	L, R, SW
	LPCM 96KHz	Stereo	o	-	-	-	LPCM	L, R, SW
	Analog	Stereo	o	-	-	-	ANALOG	L, R, SW

L/R : Front Speaker (Left/Right) C : Center Speaker SL/SR : Rear Speaker (Left/Right) SW : Subwoofer



- Channel status displays are dependent on the speaker configuration.
- SFE mode works with 2-ch signals.

# Convenient Functions



## Sleep timer function

You can set the time that this unit will shut itself off.

### REMOTE CONTROL

Press the **SLEEP** button.

- SLEEP : OFF → 15 → 30 → 45 → 60 → 90 → 120 M (MIN) will be selected in turn.

#### To check sleep timer

Press **SLEEP** button.

- The remaining time before this unit will shut itself off is shown on the display.
- Pressing the button again changes the sleep time from what you set previously.

#### To cancel sleep timer

- Press **SLEEP** button until "SLEEP : OFF" appears on the display.

## Mute function

This function is useful when answering a doorbell or telephone call.

### REMOTE CONTROL

Press the **MUTE** button.

- MUTE** appears on the display.

#### To output sound again

Press **MUTE** button again.

- MUTE will disappear and sound will output.



- SLEEP, Mute and the Adjust Display function can only be operated with the remote control.



## Reset function

If a product malfunction occurs, you can re-initialize the system.

### REMOTE CONTROL

1 Press the **MUTE** button.

- MUTE** appears on the display.

2 Press "0" button five times and then press **ENTER** button.

- "INITIAL : YES" appears on the display.

3 Press **▲▼** buttons to select "YES".

- The unit will turn off after 5 seconds.

### MAIN UNIT

Turn off the power and hold the **SELECT(▲)** button for longer than 5 seconds.

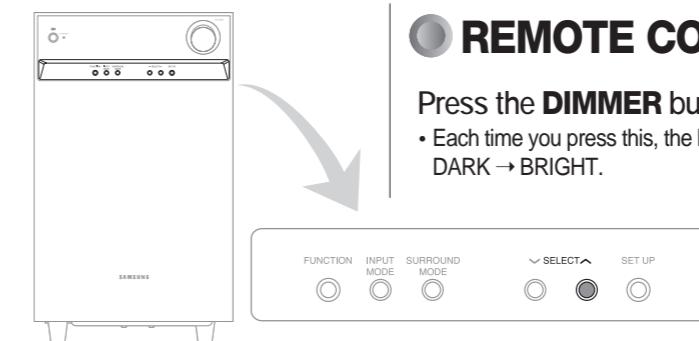
- POWER STANDBY indicator will flash.

#### Caution!

- Using the RESET function will erase all stored settings.
- Do not use this unless necessary.

## Adjust the display

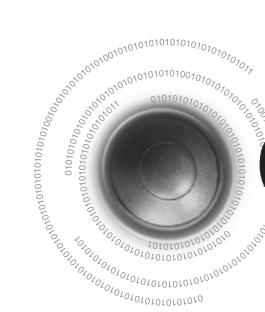
You can adjust the brightness of the display.



### REMOTE CONTROL

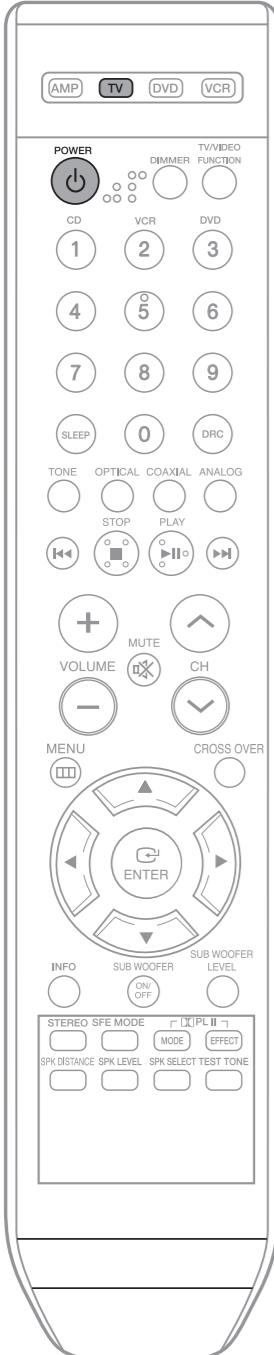
Press the **DIMMER** button.

- Each time you press this, the brightness changes as follows : DARK → BRIGHT.



# Operating your TV with the Remote Control

GB



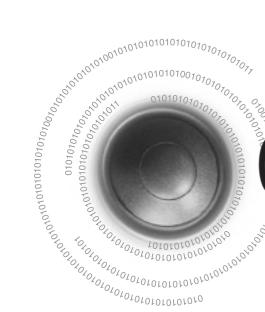
- 1** Press **TV** button to set the remote to TV mode.
- 2** Press **POWER** button to turn on the TV.
- 3** While holding down **POWER** button, enter the code corresponding to your brand of TV.
  - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
- 4** If the TV turns off, the setting is complete.
  - You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).



- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

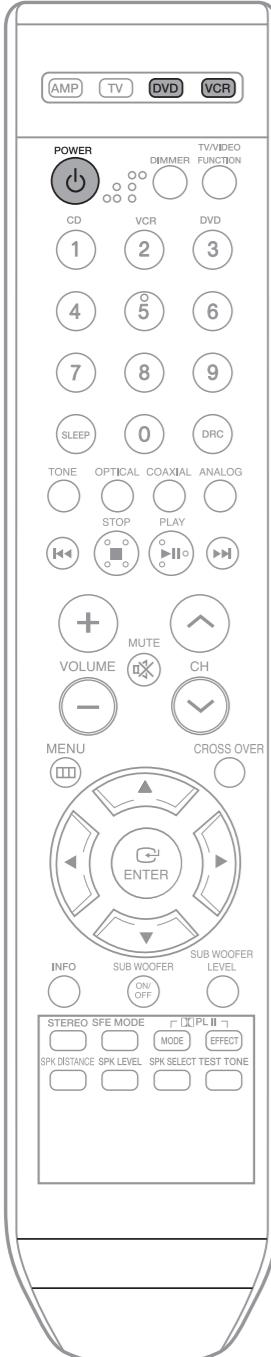
## TV Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M.WARDS)	056,057,058	LUXMAN	018	SYLVANIA	018,040,048,054,059,060,062
AMARK	001,015	LXI(SEARS)	019,054,056,059,060,062,063,065,071	SYMPHONIC	061,095,096
ANAM	001,002,003,004,005,006,007,008,009,010,011,012,013,014	MAGNAVOX	015,017,018,048,054,059,060,062,072,089	TATUNG	006
AOC	001,018,040,048	MARANTZ	040,054	TECHWOOD	018
BELL&HOWELL(M.WARDS)	057,058,081	MATSUI	054	TEKNIKA	003,015,018,025
BROCSONIC	059,060	MGA	018,040	TOSHIBA	019,057,063,071,101,107,109,110,111,113
CANDLE	018	MITSUBISHI/MGA	018,040,054,059,060,075,101	VIDTECH	018
CETRONIC	003	CITIZEN	003,018,025	MTC	018
CITIZEN	003,018,025	CINEMA	097	NEC	018,019,020,040,059,060
CLASSIC	003	CONCERTO	018	NIKEI	003
CONCERTO	018	CONTEC	046	ONKING	003
CORONADO	015	CORONADO	015	ONWA	003
CRAIG	003,005,061,082,083,084	CRAIG	003,005,061,082,083,084	PANASONIC	006,007,008,009,054,066,067,073,074
CROSLEX	062	CROWN	003	PANASONIC	006,007,008,009,054,066,067,073,074
CROWN	003	CURTISMATES	059,061,063	PENNEY	018
CURTISMATES	059,061,063	CXC	003	PHILCO	003,015,017,018,048,054,059,062,069,090
CXC	003	DAEWOO	002,003,004,015,016,017,018,019,020,021,022,023,024,025,026,027,028,029,030,032,034,035,036,040,048,059,090,099,100	PHILIPS	015,017,018,040,048,054,062,072,112,114,117,118
DAEWOO	002,003,004,015,016,017,018,019,020,021,022,023,024,025,026,027,028,029,030,032,034,035,036,040,048,059,090,099,100	PIONEER	063,066,080,091	YOKO	054
PIONEER	063,066,080,091	PORTLAND	015,018,059	LOEWE OPTA	054,114
PORTLAND	015,018,059	PROTON	040	PHONOLA	054,112,114
PROTON	040	QUASAR	006,066,067	GRUNDIG	108,109,113,119,120,121
QUASAR	006,066,067	DAYTRON	040	BLAUPUNKT	108
DAYTRON	040	DYNASTY	003	SIEMENS	108
DYNASTY	003	EMERSON	003,015,040,046,059,061,064,082,083,084,085	CGE	113
EMERSON	003,015,040,046,059,061,064,082,083,084,085	FISHER	019,065,103	REALISTIC	003,019
FISHER	019,065,103	FUNAI	003	IMPERIAL	113
FUNAI	003	FUTURETECH	003	SAMPO	040
FUTURETECH	003	GENERAL ELECTRIC(GE)	006,040,056,059,066,067,068	SAMSUNG	000,015,016,017,040,043,046,047,048,049,054,059,060,098
GENERAL ELECTRIC(GE)	006,040,056,059,066,067,068	HALLMARK	040	SANYO	019,061,065,101,102,103,104
HALLMARK	040	HITACHI	015,018,050,059,069	SCOTT	003,040,060,061
HITACHI	015,018,050,059,069	INKEL	045	SEARS	015,018,019
INKEL	045	JC PENNY	056,059,067,086	SHARP	015,057,064,101,105,106,115
JC PENNY	056,059,067,086	JVC	070	SIGNATURE 2000(M.WARDS)	057,058
JVC	070	KTV	059,061,087,088	SONY	050,051,052,053,055,101
KTV	059,061,087,088	KEC	003,015,040	SOUNDDESIGN	003,040
KEC	003,015,040	KMC	015	SPECTRICON	001
KMC	015	LG(GOLDSTAR)	001,015,016,017,037,038,039,040,041,042,043,044,054,086	SSS	018
LG(GOLDSTAR)	001,015,016,017,037,038,039,040,041,042,043,044,054,086				



# Operating your DVD (VCR) with the Remote Control

GB



**1** Press **DVD** button to set the remote to **DVD mode**.

- If you operate VCR, press **VCR** button to set the remote to **VCR mode**.

**2** Press **POWER** button to turn on the **DVD (VCR)**.

**3** While holding down **POWER** button, enter the code corresponding to your brand of **DVD (VCR)**.

- If there is more than one code listed for your **DVD (VCR)** in the table, enter one at a time to determine which code works.

**4** If the **DVD(VCR)** turns off, the setting is complete.

- You can use **DVD (VCR)** POWER, VOLUME, PLAY, PAUSE, STOP, SKIP, MENU and Numeric button (0~9).

## Note

- The remote control may not work on some brands of **DVD (VCR)**. Also, some operations may not be possible depending on your brand of **DVD (VCR)**.
- The remote control will work with **Samsung DVD (VCR)** by default.

## VCR Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number	
ADMIRAL <sub>(M.WARDS)</sub>	043, 106	MEI	001, 033	TASHIRO	050	
AWIA	044, 045, 046	MEMOREX	001, 025, 033, 054, 091, 100	TATUNG	047, 052, 092	
AKAI	088, 089, 090	ANAM	001, 002, 003, 004, 005, 033	MINOLTA	020, 021, 062	
AOC	091	mitsubishi/mga	068, 069, 070, 101, 102	TEAC	044, 047, 052, 092	
AUDIO DYNAMIC	019, 047, 092	MTC	072	TECHNICS	001, 033, 049, 091	
BELL & HOWELL <sub>(M.WARDS)</sub>	048, 093	MULTITECH	044, 057, 069	TOSHIBA	006, 051	
BROKSONIC	092, 094, 095	NEC	019, 047, 052, 057, 092	TOTEVISION	025, 072	
CANON	001, 033, 049, 091	OLYMPIC	049, 091	TAEKWANG	087	
CAPEHART	011	OPTIMUS	101	UNITECH	072	
CITIZEN	050	ORION	103	VECTORRESEARCH	019	
CRAIG	050, 072, 096	PANASONIC	001, 004, 033, 049, 067, 091, 107	VIDEO CONCEPTS	019	
CRITERION	051	PENNEY	019, 020, 072	VIDEOSONIC	072	
CURTISMATHEIS	001, 031, 032, 033, 044, 091	PENTAX	001, 020, 021, 033, 062	WARDS	001, 020, 031, 032, 033, 043, 050, 054, 072, 100, 105, 106, 109	
DAEWOO	006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 046, 051, 091	PHILCO	001, 033, 046, 049, 091, 094	YAMAHA	019, 047, 048, 052, 092	
DAYTRON	011	PHILIPS	001, 030, 033, 049, 050, 066, 091	ZENITH	019, 047, 048, 052, 092	
DBX	019, 047, 052, 092	PILOT	025	DVD Brand Code List		
EMERSON	025, 031, 032, 044, 046, 094, 095, 097, 098, 099	DAYTRON	011	Brand	Code Number	
FISHER	009, 048, 053, 054, 055, 100	DBX	019, 047, 052, 092	DENON	003, 032	
FUNAI	044	EMERSON	025, 031, 032, 044, 046, 094, 095, 097, 098, 099	DOONON	019	
GENERAL ELECTRIC <sub>(GE)</sub>	001, 031, 032, 033, 056, 091	FISHER	009, 048, 053, 054, 055, 100	RCA/PROSCAN	001, 020, 021, 031, 032, 033, 049, 051, 062, 066, 070, 091, 104	
GO VIDEO	059, 060, 061	GENERAL ELECTRIC <sub>(GE)</sub>	001, 031, 032, 033, 056, 091	REALISTIC	001, 009, 025, 033, 044, 048, 054, 091, 101, 105	
HARMANKARDON	019	HITACHI	020, 021, 049, 054, 062, 100	SAMSUNG	000, 006, 031, 032, 057, 058, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081	
HQ	051	HQ	051	SANYO	008, 009, 046, 048, 050, 054, 058, 093, 100	
INSTANT REPLAY	001, 033, 049, 091	INSTANT REPLAY	001, 033, 049, 091	JCL	001, 033	
JCL	001, 033	JCP	025	JCP	025	
JCPENNY	047, 048, 052, 062, 091, 092	JCPENNY	047, 048, 052, 062, 091, 092	SANSUI	092	
JVC	001, 033, 047, 052, 063, 064, 065, 092	JVC	001, 033, 047, 052, 063, 064, 065, 092	SCOTT	006, 051, 054, 057, 069, 070, 100, 101	
KENWOOD	047, 050, 052, 092	KENWOOD	047, 050, 052, 092	SEARS	020, 021, 025	
LG(GOLDSTAR)	019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 050	LG(GOLDSTAR)	019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 050	SHARP	043, 105, 106	
LXI(SEARS)	020, 025, 044, 048, 050, 053, 054, 055, 062, 100	LXI(SEARS)	020, 025, 044, 048, 050, 053, 054, 055, 062, 100	SINGER	096	
MAGIN	072	MAGIN	072	SIGNATURE 2000 <sub>(M.WARDS)</sub>	043, 044, 054, 100, 106	
MAGNAVOX	001, 031, 032, 033, 049, 066, 067, 091	MAGNAVOX	001, 031, 032, 033, 049, 066, 067, 091	SHINTOM	096	
MARANTZ	001, 019, 033, 047, 052, 092, 110	MARANTZ	001, 019, 033, 047, 052, 092, 110	SONY	034, 035, 036, 037, 038, 039, 040, 041, 042, 083, 084, 085, 086	
MARTA	025, 050	MARTA	025, 050	STS	020	
				SYLVANIA	001, 033, 044, 049, 066, 091	
				SYMPHONIC	044	
				TANDY	009	
					MARANTZ	031



# Before Calling for Service

GB

➤ Symptom	Check	Remedy
Can't turn it on.	<ul style="list-style-type: none"> <li>Is the power cord plugged into the outlet?</li> </ul>	<ul style="list-style-type: none"> <li>Connect the power plug to the outlet.</li> </ul>
It does not work when the button is pressed.	<ul style="list-style-type: none"> <li>Is there static electricity in the air?</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect the power plug and connect it again.</li> </ul>
Sound is not produced.	<ul style="list-style-type: none"> <li>Are the speakers and external components connected properly?</li> <li>Is the Mute function on?</li> <li>Is the volume set to minimum?</li> <li>Is the speaker setup set incorrectly to NONE?</li> <li>Aren't you playing MPEG II audio in an external device?</li> </ul>	<ul style="list-style-type: none"> <li>Connect them correctly.</li> <li>Press Mute button to cancel the function.</li> <li>Adjust the volume.</li> <li>Refer to pages 18~19 to select LARGE, SMALL or YES.</li> <li>MPEG II audio decoding is not supported. Set the audio format of the external device to PCM.</li> </ul>
Picture does not appear when the function is selected.	<ul style="list-style-type: none"> <li>Is the external component connected properly?</li> </ul>	<ul style="list-style-type: none"> <li>Connect them correctly.</li> </ul>
Remote controller does not work.	<ul style="list-style-type: none"> <li>Are the batteries drained?</li> <li>Is the distance between remote control and main unit too great?</li> </ul>	<ul style="list-style-type: none"> <li>Replace with new batteries.</li> <li>Operate at close distance.</li> </ul>
The sound from each device is changed during stereo playback.	<ul style="list-style-type: none"> <li>Are the left/right speaker or left/right input/output cables connected properly?</li> </ul>	<ul style="list-style-type: none"> <li>Check the left/right channel and connect it/them correctly.</li> </ul>
There is no sound from surround speakers.	<ul style="list-style-type: none"> <li>Is the surround speaker connected properly?</li> <li>Is SURR (surround) incorrectly set to NONE in speaker setup?</li> <li>Is surround mode selected to stereo?</li> </ul>	<ul style="list-style-type: none"> <li>Refer to pages 10~11 to connect it properly.</li> <li>Refer to pages 18~19 to select LARGE or SMALL.</li> <li>Refer to pages 32~41 to select other Surround Mode.</li> </ul>
There is no sound from centre speaker	<ul style="list-style-type: none"> <li>Is the centre speaker connected properly?</li> <li>Is CEN (centre) incorrectly selected to NONE in speaker setup?</li> <li>Is the surround mode selected to stereo?</li> </ul>	<ul style="list-style-type: none"> <li>Refer to pages 10~11 to connect it properly.</li> <li>Refer to pages 18~19 to select LARGE or SMALL.</li> <li>Refer to pages 32~41 to select other Surround Modes.</li> </ul>

➤ Symptom	Check	Remedy
Can't select Dolby Pro Logic II mode.	<ul style="list-style-type: none"> <li>Is the input signal selected properly?</li> </ul>	<ul style="list-style-type: none"> <li>Select 2 channel Dolby Digital, PCM, and Analogue input signal.</li> </ul>
There is no sound when playing a DTS encoded DVD.	<ul style="list-style-type: none"> <li>Is Digital input selected?</li> </ul>	<ul style="list-style-type: none"> <li>Check whether digital external component is properly connected and refer to page 22~23 to select the digital input.</li> </ul>

## ● Product protection function



### Heat protection

- The protection function will come on if the main unit or power transformer overheats.
- "PROTECTION" will appear in the display.
- This function will come on :
  - If speaker terminal is shorted
  - If speaker cable is shorted
  - If there is no problem when you turn the unit on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.

- If PROTECTION appears on the display, check whether the speaker terminal is shorted and then turn on the unit



# Specifications

GB

GENERAL	Power Supply	AC 220-240V, 50/60 Hz
	Standby Power Consumption	0.9W
	Power Consumption	100W
	Weight	13 kg
	Dimensions (W x H x D)	270 x 450 x 520 mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10%~75%
AMPLIFIER	Rated Output	20Hz~20KHz/THD = 10%
	Front Speaker(Left+Right)	4 Ω 100W/CH
	Center Speaker	4 Ω 100W/CH
	Surround Speaker(Left+Right)	4 Ω 100W/CH
	Subwoofer Speaker	4 Ω 100W/CH
	Input Sensitivity/Impedance	450mV/47kΩ
	S/N Ratio(Analog Input)	80dB
	Separation(1KHz)	60dB
FREQUENCY RESPONSE	Analog Input	20Hz~20KHz(±3dB)
	Digital Input	20Hz ~44KHz(±3dB)
VIDEO OUTPUT	TV Format	NTSC/PAL
	Input Level/Impedance	1Vp-p/75 Ω
	Output Level/Impedance	1Vp-p/75 Ω
	Video Frequency Response	5Hz to 10KHz(-3dB)
	S/N Ratio	60dB

※ S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES-17 filter.

HT-AS

SPEAKERS	Speaker system	Front / Surround		Center
	Impedance	4Ω		4Ω
	Frequency range	140Hz~20KHz		140Hz~20KHz
	Output sound pressure level	86dB/W/M		86dB/W/M
	Rated input	100W		100W
	Maximum input	200W		200W
	Dimensions (W x H x D)	Front	90 x 152 x 90 mm	
		Surround	90 x 152 x 90 mm	
	Weights	Front	0.5kg	
		Surround	0.4kg	

HT-AS17

SPEAKERS	Speaker system	Front / Surround	Center
	Impedance	4Ω	4Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz
	Output sound pressure level	86dB/W/M	86dB/W/M
	Rated input	100W	100W
	Maximum input	200W	200W
	Dimensions (W x H x D)	Front	90 x 1045 x 90 mm (Stand base : Ø 270)
		Surround	90 x 152 x 90 mm
	Weights	Front	3.5kg
		Surround	0.4kg
			0.6 Kg